





Document

Process Data for Injection

Moulding

Description

Polyamide 6

Application

Injection Moulding

Structure	Semicristalline	
General Properties	Tenacious when moist (2-3% water), hard, stiff, abrasion resistant. Highly hygroscopic and good antifriction properties.	
Barrel Temperature	(+ 15°C to be added for glass fiber reinforced)	
	(- 15°C to decrease for Flame Retardant grades, V0/V2/XA/XG/XF/XM/XB)	
	Feed Zone	60 – 90 °C
	Zone 1	230 – 240 °C
	Zone 2	230 – 250 °C
	Zone 3	240 – 250 °C
	Zone 4	240 – 250 °C
	Zone 5	240 – 250 °C
	Nozzle	240 – 250 °C
Melt temperature	240 – 250 °C	
Mould temperature	60 –110 °C	
Injection pressure	900 – 1600 bar	
Post-pressure	Between 40 and 60% of injection pressure, high post-pressure time	
Counterpressure	30 – 90 bar	
Injection speed	High.	
Screw speed	Equal to peripheric speed of 1.0 m/s	
Metering	0.5 – 3.5 diameters	
Cushion	2 – 8 mm, depends on metering and screw diameter	
Drying	4 hours at 80°C. Store the product in sealed and waterproof bags.	
Recycle	30% of regrinded material. This percentage decreases for technical and aesthetic parts. Not recommended for Flame Retardant grade.	
Shrinkage	0.7-2.0 % unfilled; 0.3-0.8 % reinforced grades	
Barrel equipment	Standard screw, non-return valve, free-flow nozzle	
Quenching	Not necessary to purge with other materials. Purge with natural product suggested after Flame Retardant processing.	

